FIGURE 7

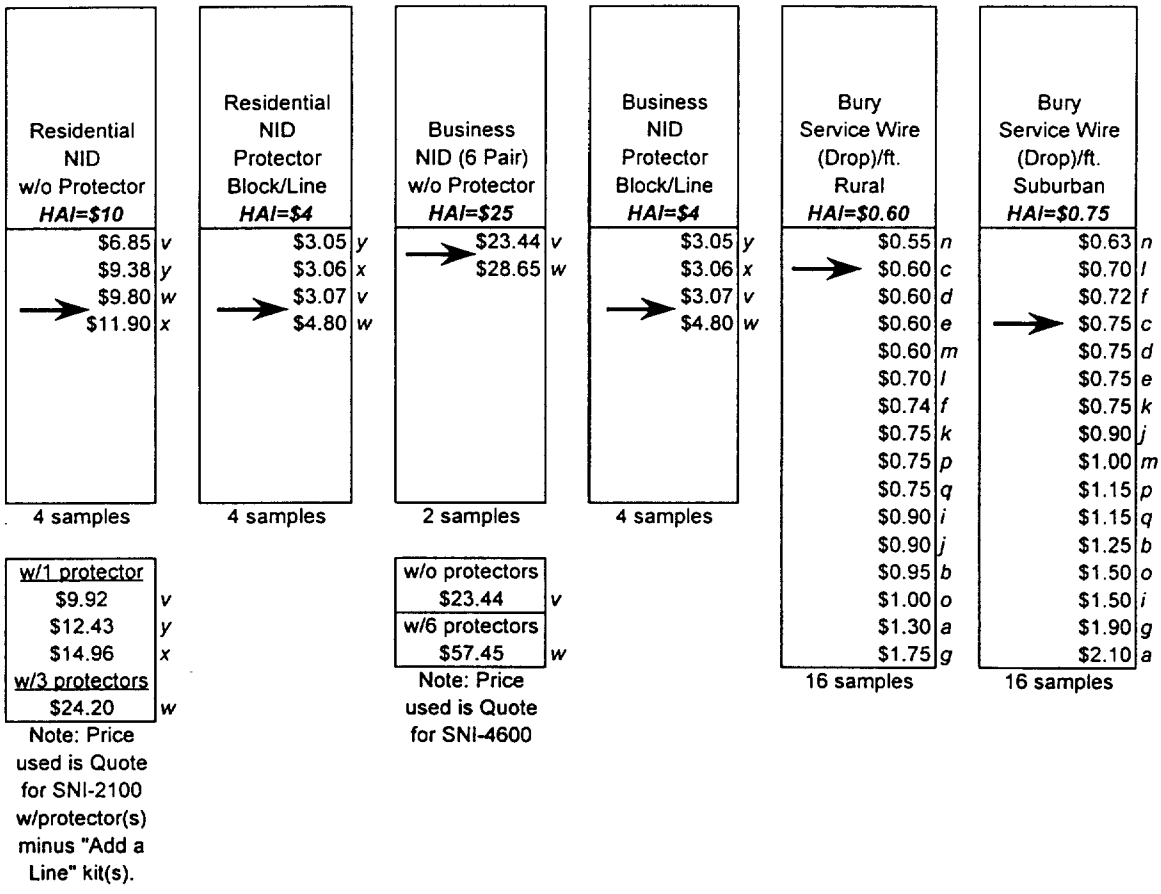
Alabama South Central Bell-Al	HAI 50a Default Investment	HAI 50a Cluster Density Investment	Impact of Definition Change
Network Element	(A)	(B)	(B/A)-1
NID	$ 45,224,405	$ 45,265,688	0%
Distribution (DLC)	744,940,807	853,281,463	15%
Distribution (non-DLC)	124,087,133	159,303,615	28%
Distribution (all)	869,027,939	1,012,585,078	17%
Concentrator (DLC)	281,049,036	281,053,797	0%
Concentrator (non-DLC)	2,971,068	2,969,978	0%
Concentrator (all)	284,020,104	284,023,775	0%
Feeder (DLC)	294,710,779	295,816,726	0%
Feeder (non-DLC)	45,409,359	46,521,526	2%
Feeder (all)	340,120,138	342,338,252	1%
End Office Switching	233,684,159	233,684,159	0%
Signaling	19,009,436	19,009,436	0%
Dedicated Transport	48,383,624	48,385,681	0%
Dedicated Transport Transmission	26,261,262	26,261,262	0%
Direct Transport	33,212,714	33,211,961	0%
Direct Transport Transmission	13,303,476	13,303,476	0%
Common Transport	7,225,173	7,225,283	0%
Common Transport Transmission	2,582,978	2,582,978	0%
Tandem Switching	8,817,064	8,817,064	0%
Operator Systems	10,882,837	10,882,837	0%
Public Telephone	12,698,839	12,698,839	0%
Total Investment	$ 1,954,454,148	$ 2,100,275,770	**7%**

Total Lines	1,968,210	1,968,210	0%
Lines On DLC	1,379,936	1,379,936	0%
% Lines on DLC	70%	70%	0%

USF Monthly Cost	$ 23.98	$ 25.60	**7%**
UNE Loop Cost	$ 18.72	$ 20.27	**8%**

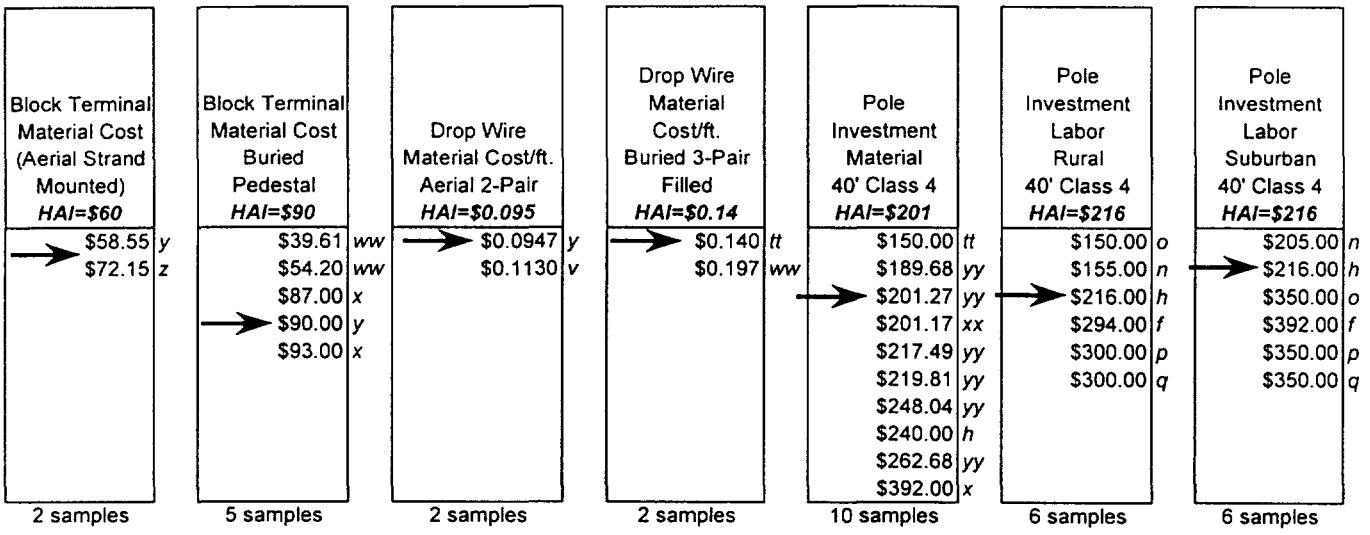
FIGURE 8

Validation of Default Costs
327 Samples



Note: letters represent vendor code

Validation of Default Costs
327 Samples



Also see FCC* data containing 94 entries of values from $134 to $402.

Also see FCC* data containing 94 entries of values from $170 to $902.

Also see FCC* data containing 94 entries of values from $170 to $1,161.

*http://www.fcc.gov/Bureaus/Common_Carrier/Comments/da971433_data_request/datareq.html

Note: letters represent vendor code

Validation of Default Costs
327 Samples

Duct Material Cost/ft. *HAI=$0.60*		Rock Saw/ Trenching Ratio *HAI=3.5*		Manhole Material *HAI=$2,340*		Manhole Excavation & Backfill Rural *HAI=$2,800*		Manhole Excavation & Backfill Suburban *HAI=$3,200-$3,500*		Manhole Excavation & Backfill Metro *HAI=$3,500-$5,000*	
$0.515	*t*	1.3	*g*	$1,350	*x*	$850	o	$1,250	*o*	$1,700	*o*
→ $0.585	*u*	1.8	*n*	$1,700	*o*	$1,500	n	$1,830	*f*	$2,650	*g*
$0.648	*s*	1.9	*l*	→ $2,340	*uu*	$1,600	p	$2,050	*g*	$3,140	*f*
		2.1	*o*	$3,100	*n*	$1,600	q	$2,100	*n*	$3,200	*l*
		2.5	*q*	$3,389	*v v*	$1,614	f	$2,400	*p*	→ $3,500	*n*
		→ 2.8	*p*	$3,500	*k*	$1,750	g	$2,400	*q*	$4,000	*p*
		3.6	*i*	$4,720	*p*	→ $2,800	l	→ $2,800	*l*	$4,000	*q*
		4.6	*k*	$4,720	*q*	$3,500	i	$4,200	*i*	→ $5,000	*k*
						$4,000	k	$4,500	*k*	$8,500	*i*
3 samples				8 samples		9 samples		9 samples		9 samples	

Normal Trenching 24"	*l*
$2.40	*p*
$3.00	*n*
$3.18	*q*
$3.25	*k*
$3.50	*g*
$4.38	*i*
$5.00	*o*
$7.00	

1 Quote @ $1865 less frame & cover +$125 delivery.	*uu*
Frame+Cover from "Nat'l Constr Estimator" @ $350.00 Total=$2,340	

Frost Wheel or Rock Saw Rural & Suburban 24"	*l*
$4.50	*g*
$5.75	*n*
$5.75	*q*
$8.00	*p*
$8.50	*o*
$15.00	*k*
$16.00	*i*
$18.00	

16 samples

v v

1 Bid @ $3150 plus $239 delivery Total=$3,389

Note: letters represent vendor code

Validation of Default Costs
327 Samples

Normal Trenching in Dirt with Backfill Rural/ft. 24" depth ***HAI=$2.81-$2.97***		Normal Trenching in Dirt with Backfill Rural/ft. 36" depth ***HAI=$2.81-$2.97****		Normal Trenching in Dirt with Backfill Suburban/ft. 24" depth ***HAI=$2.81-$3.88****		Normal Trenching in Dirt with Backfill Suburban/ft. 36" depth ***HAI=$2.81-$3.88****		Trenching in Pavement with Restoral Metro/ft. 24" depth ***HAI=$13.58 & $48.85***		Trenching in Pavement with Restoral Metro/ft. 36" depth ***HAI=$13.58 & $48.85***	
$2.00	*o*	$1.50	*b*	$2.40	*l*	$2.00	*b*	$7.50	*k*	$7.40	*f*
$2.00	*p*	$1.87	*f*	$3.00	*p*	$2.46	*f*	$8.85	*g*	$8.50	*k*
$2.15	*n*	$2.10	*a*	$3.25	*n*	$2.50	*l*	$9.60	*g**	$8.60	*c*
$2.25	*q*	$2.50	*l*	$3.25	*q*	$3.10	*j*	$12.00	*p*	$8.80	*d*
$2.40	*l*	$2.75	*n*	$3.45	*g*	$3.50	*a*	$13.00	*q*	$8.80	*e*
$2.50	*p**	$2.75	*j*	$3.50	*k*	$3.60	*n*	$13.10	*j*	$9.10	*g*
$2.60	*n**	$3.00	*o*	$3.50	*p**	$3.60	*g*	$13.50	*n*	$9.80	*g**
$2.75	*q**	$3.00	*p*	$3.75	*n**	$3.90	*h*	$14.00	*p**	$9.87	*h*
$3.00	*o**	$3.15	*n**	$3.75	*q**	$4.00	*p*	$15.00	*o*	$10.00	*b*
$3.30	*g*	$3.20	*c*	$4.85	*g**	$4.10	*n**	$15.00	*q**	$10.50	*a*
$3.50	*k*	$3.25	*q*	$5.00	*i*	$4.25	*c*	$16.20	*n**	$14.00	*p*
$3.90	*g**	$3.30	*d*	$9.00	*o*	$4.25	*q*	$19.00	*o**	$14.25	*n*
$5.00	*i*	$3.30	*e*	$11.00	*o**	$4.50	*d*	$42.00	*l*	$15.00	*q*
		$3.40	*g*			$4.50	*e*	$60.00	*i*	$16.00	*p**
		$3.50	*o**			$4.50	*k*			$17.00	*o*
		$3.50	*p**			$4.50	*p**			$17.00	*q**
		$3.75	*q**			$4.75	*q**			$17.50	*n**
		$4.00	*g**			$4.90	*g**			$22.00	*o**
		$4.50	*k*			$6.00	*i*			$42.00	*l*
		$4.93	*h*			$11.00	*o*			$63.00	*i*
		$6.00	*i*			$15.00	*o**				
13 samples		21 samples		13 samples		21 samples		14 samples		20 samples	

**12" wide trench price as well as 6" trench price was submitted*

***Equivalent Default Values Excluding Plowing, Boring, and Pushing Pipe*

Note: letters represent vendor code

Plow Cable Rural/ft. 24" depth ***HAI=$0.80***		Plow Cable Rural/ft. 36" depth ***HAI=$0.80***		Plow Cable Suburban/ft. 24" depth ***HAI=$1.20***		Plow Cable Suburban/ft. 36" depth ***HAI=$1.20***	
Normal		Normal		Normal		Normal	
$0.40	p	$0.50	p	$0.85	k	$0.90	j
$0.50	q	$0.60	q	$1.15	g	$0.95	k
$0.75	l	→ $0.80	l	$1.15	n	$1.05	b
→ $0.80	k	$0.90	a	→ $1.20	l	→ $1.20	g
$0.85	n	$0.90	j	$1.50	p	$1.25	c
$1.10	g	$0.90	k	$1.60	q	$1.30	a
$1.50	i	$0.92	f	$2.00	o	$1.30	l
$1.50	o	$0.95	b	$3.50	i	$1.35	d
		$0.95	n			$1.35	e
		$1.15	g			$1.57	f
		$1.25	c			$1.65	n
		$1.35	d			$1.90	p
		$1.35	e			$2.00	q
		$1.75	i			$2.95	o
		$2.00	o			$4.00	i
More Difficult		More Difficult		More Difficult		More Difficult	
$0.75	l	$0.80	l	$0.85	k	$0.95	k
$0.80	k	$0.90	k	$1.20	g	$1.25	b
$0.80	p	$1.00	p	$1.20	l	$1.30	l
$0.90	q	$1.10	q	$1.95	n	$1.40	g
$1.15	n	$1.15	b	$2.75	p	$1.40	j
$1.20	g	$1.20	f	$2.85	q	$1.87	f
$1.50	i	$1.25	g	$3.50	i	$2.35	n
$2.00	o	$1.40	j	$4.00	o	$2.50	c
		$1.40	n			$2.70	d
		$1.75	i			$2.70	e
		$2.00	a			$2.90	a
		$2.25	c			$3.75	p
		$2.50	d			$3.85	q
		$2.50	e			$4.00	i
		$2.95	o			$6.00	o
Ratio		Ratio		Ratio		Ratio	
1.00	i	1.00	i	1.00	i	1.00	i
1.00	k	1.00	k	1.00	k	1.00	k
1.00	l	1.00	l	1.00	l	1.00	l
1.09	g	1.09	g	1.04	g	1.17	g
1.33	o	1.21	b	1.70	n	1.19	b
1.35	n	1.30	f	1.78	q	1.19	f
1.80	q	1.47	n	1.83	p	1.42	n
2.00	p	1.48	o	2.00	o	1.56	j
		1.56	j			1.93	q
		1.80	c			1.97	p
		1.83	q			2.00	c
		1.85	d			2.00	d
		1.85	e			2.00	e
		2.00	p			2.03	o
		2.22	a			2.23	a
16 samples		30 samples		16 samples		30 samples	

Note: letters represent vendor code

Excavation Weighted Values
Equivalent Excavation Costs for Validation Comparisons

Density Zone	(a) Plow	(b) Trench	(c) Backhoe	(d) Hand Trench	(e) Bore Cable	(f) Push Pipe/Pull Cable	(g) Excavation Subtotal	(h) Cut/Restore Asphalt	(i) Cut/Restore Concrete	(j) Cut/Restore Sod	(k) Restoral Not Required	(l) Simple Backfill	(m) Restoration Subtotal	(n) Total Default Value
Weighted cost														
0-5	$0.48	$0.53	$0.30	$0.00	$0.00	$0.12	$1.43	$0.18	$0.09	$0.02	$0.00	$0.05	$0.34	$1.77
5-100	$0.48	$0.53	$0.30	$0.00	$0.00	$0.12	$1.43	$0.18	$0.09	$0.02	$0.00	$0.05	$0.34	$1.77
100-200	$0.48	$0.53	$0.30	$0.00	$0.00	$0.12	$1.43	$0.18	$0.09	$0.02	$0.00	$0.05	$0.34	$1.77
200-650	$0.40	$0.70	$0.30	$0.05	$0.00	$0.12	$1.57	$0.18	$0.09	$0.02	$0.00	$0.06	$0.35	$1.93
650-850	$0.28	$0.99	$0.30	$0.10	$0.00	$0.12	$1.79	$0.18	$0.09	$0.02	$0.00	$0.09	$0.38	$2.17
850-2,550	$0.24	$1.27	$0.30	$0.20	$0.33	$0.24	$2.58	$0.30	$0.27	$0.35	$0.00	$0.05	$0.97	$3.54
2,550-5,000	$0.00	$1.63	$0.30	$0.25	$0.44	$0.30	$2.92	$0.48	$0.45	$0.35	$0.00	$0.06	$1.34	$4.27
5,000-10,000	$0.00	$4.38	$2.00	$0.60	$0.55	$0.36	$7.89	$3.24	$1.68	$0.11	$0.00	$0.08	$5.11	$13.00
10,000+	$0.00	$8.10	$7.50	$1.80	$0.90	$1.44	$19.74	$18.00	$7.20	$0.05	$0.00	$0.01	$25.26	$45.00
Percentage							w/o (a), (e), (f)						w/o (k)	
0-5	60%	28%	10%			2%	40%	3%	1%	2%	62%	32%	38%	
5-100	60%	28%	10%			2%	40%	3%	1%	2%	62%	32%	38%	
100-200	60%	28%	10%			2%	40%	3%	1%	2%	62%	32%	38%	
200-650	50%	37%	10%	1%		2%	49%	3%	1%	2%	52%	42%	48%	
650-850	35%	51%	10%	2%		2%	63%	3%	1%	2%	37%	57%	63%	
850-2,550	20%	59%	10%	4%	3%	4%	73%	5%	3%	35%	27%	30%	73%	
2,550-5,000	0%	76%	10%	5%	4%	5%	91%	8%	5%	35%	9%	43%	91%	
5,000-10,000	0%	73%	10%	6%	5%	6%	89%	18%	8%	11%	11%	52%	89%	
10,000+	0%	54%	25%	10%	5%	6%	85%	60%	20%	5%	11%	4%	89%	
Cost/ft.														
0-5	$0.80	$1.90	$3.00			$6.00		$6.00	$9.00	$1.00		$0.15		
5-100	$0.80	$1.90	$3.00			$6.00		$6.00	$9.00	$1.00		$0.15		
100-200	$0.80	$1.90	$3.00			$6.00		$6.00	$9.00	$1.00		$0.15		
200-650	$0.80	$1.90	$3.00	$5.00		$6.00		$6.00	$9.00	$1.00		$0.15		
650-850	$0.80	$1.95	$3.00	$5.00		$6.00		$6.00	$9.00	$1.00		$0.15		
850-2,550	$1.20	$2.15	$3.00	$5.00	$11.00	$6.00		$6.00	$9.00	$1.00		$0.15		
2,550-5,000		$2.15	$3.00	$5.00	$11.00	$6.00		$6.00	$9.00	$1.00		$0.15		
5,000-10,000		$6.00	$20.00	$10.00	$11.00	$6.00		$18.00	$21.00	$1.00		$0.15		
10,000+		$15.00	$30.00	$18.00	$18.00	$24.00		$30.00	$36.00	$1.00		$0.15		
Weighted cost w/o Plow, Bore, Push Pipe							w/o (a), (e), (f)						w/o (k)	Total Default Value w/o (a), (e), (f), (k)
0-5		$1.33	$0.75	$0.00			$2.08	$0.47	$0.24	$0.05		$0.13	$0.89	$2.97
5-100		$1.33	$0.75	$0.00			$2.08	$0.47	$0.24	$0.05		$0.13	$0.89	$2.97
100-200		$1.33	$0.75	$0.00			$2.08	$0.47	$0.24	$0.05		$0.13	$0.89	$2.97
200-650		$1.43	$0.61	$0.10			$2.15	$0.38	$0.19	$0.04		$0.13	$0.74	$2.88
650-850		$1.58	$0.48	$0.16			$2.21	$0.29	$0.14	$0.03		$0.14	$0.60	$2.81
850-2,550		$1.74	$0.41	$0.27			$2.42	$0.41	$0.37	$0.48		$0.06	$1.32	$3.74
2,550-5,000		$1.80	$0.33	$0.27			$2.40	$0.53	$0.49	$0.38		$0.07	$1.48	$3.88
5,000-10,000		$4.92	$2.25	$0.67			$7.84	$3.64	$1.89	$0.12		$0.09	$5.74	$13.58
10,000+		$9.53	$8.82	$2.12			$20.47	$20.22	$8.09	$0.06		$0.01	$28.38	$48.85

FIGURE 9

Low Density DLC Equipment Installed Cost Summary

RT Line Size	Total Allocated COT Installed Cost per RT	RT Cost	Total
240	$6,210.83	$21,460	$27,670
120	$4,616.67	$13,731	$18,348
96	$4,297.83	$13,554	$17,852
48	$3,660.17	$11,053	$14,713
24	$3,341.33	$10,884	$14,226

Low Density Central Office DLC Equipment

Item	Part No.	Part Name	Part Description	QTY	AFC List	Net 20%	Total
Matl	0310-0114	RST KIT	RST Indoor Rack Mount Kit	1 rack	$1,220	$976	$976
Matl	0210-0001	CBA	Channel Bank Assembly	2 shelves	$1,335	$1,068	$2,136
Matl	0210-0007	CBA 19" PROJ	19" CBA Projection Mount Adapter Kit	2 kits	$40	$32	$64
Matl	0101-0001	CPU	Central Processing Unit	2 sets	$780	$624	$1,248
Matl	0500-0012	SWR-LTR8	Software	1 license	$375	$300	$300
Matl			Digital Cross Connection Frame & Cabling	1 shelf	$800		$800
Labor			Engineering hours	12.0 hrs	$55		$660
Labor			Place Frames & Racks	3.0 hrs	$55		$165
Labor			Connect Alarms, CO Timing & Power	1.0 hrs	$55		$55
Labor			Splice DSX Metallic Cable	1.0 hr	$55		$55
Labor			Place DSX Cross Connections	0.8 hr	$55		$44
Labor			Place Common Cards	0.5 hr	$55		$28
Labor			Turn Up & Test System	3.0 hrs	$55		$165
						Total COT Cost Supporting 672 Lines at Multiple RT's	$6,696
						Anticipated Utilization	75%
						Allocated COT Cost per 24 lines of RT capacity	$318.83

Item	Part No.	Part Name	Part Description	QTY	AFC List	Net 20%	Total
Matl	0120-0002	FO-XCVR	Fiber Optic Transceiver	2 pairs	$1,355	$1,084	$2,168
Matl	0410-0049	FCPC JMPR 5	Fiber Jumper, 5 meter length	4 ea	$110	$88	$352
Matl			Fiber Splice Panel	1 shelf	$200		$200
Labor			Place Fiber Splice Panel & Splice Fibers	5.5 hrs	$55		$303
						COT Cost per RT Site	$3,023

Total Allocated COT Cost per RT Site by RT Line Size

No. Lines	Cost
240	$6,210.83
120	$4,616.67
96	$4,297.83
48	$3,660.17
24	$3,341.33

240 Line Low Density Remote Terminal DLC Equipment

Item	Part No.	Part Name	Part Description	QTY	AFC List	Net 20%	Total
Matl	0310-0242	RSC/240-2	120 Line Remote Sub-Cabinet w/2 CBA's	1 cabinet	$7,850	$6,280	$6,280
Matl	0310-0245	UPA AC/240	RSC/120 UPA AC Power Center	1 unit	$955	$764	$764
Matl	0310-0248	110V AC/240	RSC/120 220V AC Power Entrance	1 unit	$150	$120	$120
Matl	0310-0225	710/240-2	RSC/240 Copper Pairs Pre-terminated (710)	10 groups	$45	$36	$360
Matl	0310-0247	GEN CON/240	External 240v. Generator Connection	1 ea	$955	$764	$764
Matl	0310-0033	BATT 35AH	48 Volt Battery Pack-35 AH (per CBA)	2 ea	$800	$640	$1,280
Matl	0310-0233	240 12" BASE	RSC/240 Standard 12" High Base	1 ea	$400	$320	$320
Matl	0310-0236	240 TEMPLATE	Pour In Place Template	1 ea	$600	$480	$480
Matl	0700-0004	P-ACI	UPA AC Interface Unit	1 unit	$200	$160	$160
Matl	0700-0007	P-ACR	UPA AC Rectifier	2 units	$500	$400	$800
Matl	0700-0010	P-FD	UPA Fuse & Distribution Unit	1 unit	$150	$120	$120
Matl	0101-0001	CPU	Central Processing Unit	2 units	$780	$624	$1,248
Matl	0101-0005	ELU	Expansion Link Unit	2 units	$445	$356	$712
Matl	0101-0003	EBC	Expansion Bank Control Unit	2 units	$445	$356	$712
Matl	0101-0006	R-PSU	Remote Subscriber Power Supply Unit	4 units	$565	$452	$1,808
Matl	0101-0017	MTU	Metallic Test Unit	1 unit	$610	$488	$488
Matl	0120-0002	FO-XCVR	Fiber Optic Transceiver	2 pairs	$1,355	$1,084	$2,168
Labor			Engineering	18.0 hrs	$55		$990
Labor			Construct Pad & Site	1 site	$500		$500
Labor			Place Power Pedestal & Hook Up Power	1 site	$500		$500
Labor			Place Cabinet	4.0 hrs	$55		$220
Labor			Install Batteries & Turn Up Power	1.0 hrs	$55		$55
Labor			Place Fiber Patch Panel & Splice Fibers	5.5 hrs	$55		$303
Labor			Copper Splicing	2.6 hrs	$55		$143
Labor			Turn Up & Test System	3.0 hrs	$55		$165
						240 Line DLC Remote Terminal Installed Cost	$21,460
						240 Line DLC Allocated COT Costs	$6,211
						240 Line DLC Total Common Costs + Site + Fiber Patch Panel Installed Costs	$27,670

120 Line Low Density Remote Terminal DLC Equipment

Item	Part No.	Part Name	Part Description	QTY	AFC List	Net 20%	Total
Matl	0310-0174	RSC/120	120 Line Remote Sub-Cabinet w/1 CBA	1 cabinet	$3,800	$3,040	$3,040
Matl	0310-0133	UPA AC/120	RSC/120 UPA AC Power Center	1 unit	$955	$764	$764
Matl	0310-0056	110V AC/120	RSC/120 110V AC Power Entrance	1 unit	$150	$120	$120
Matl	0310-0031	MS2/120	RSC/120 Copper Pairs Pre-terminated (MS2)	5 groups	$45	$36	$180
Matl	0310-0028	GEN CON/120	External Generator Connection	1 ea	$350	$280	$280
Matl	0310-0033	BATT 35AH	48 Volt Battery Pack-35 AH	1 ea	$800	$640	$640
Matl	0310-0076	120 6" BASE	RSC/120 Standard 6" High Base	1 ea	$150	$120	$120
Matl	0310-0073	120 TEMPLATE	RSC/120 Pour In Place Template	50% sites	$600	$480	$240
Matl	0310-0070	120 POLE	RSC/120 Pole Mount Kit	50% sites	$450	$360	$180
Matl	0700-0004	P-ACI	UPA AC Interface Unit	1 unit	$200	$160	$160
Matl	0700-0007	P-ACR	UPA AC Rectifier	2 units	$500	$400	$800
Matl	0700-0010	P-FD	UPA Fuse & Distribution Unit	1 unit	$150	$120	$120
Matl	0101-0001	CPU	Central Processing Unit	2 units	$780	$624	$1,248
Matl	0101-0006	R-PSU	Remote Subscriber Power Supply Unit	2 units	$565	$452	$904
Matl	0101-0017	MTU	Metallic Test Unit	1 unit	$610	$488	$488
Matl	0120-0002	FO-XCVR	Fiber Optic Transceiver	2 pairs	$1,355	$1,084	$2,168
Labor			Engineering	14.0 hrs	$55		$770
Labor			Construct Pad & Site	50% sites	$500		$250
Labor			Place Power Pedestal & Hook Up Power	1 site	$500		$500
Labor			Place Cabinet	4.0 hrs	$55		$220
Labor			Install Batteries & Turn Up Power	1.0 hrs	$55		$55
Labor			Place Fiber Patch Panel & Splice Fibers	5.5 hrs	$55		$303
Labor			Copper Splicing	1.3 hrs	$55		$72
Labor			Turn Up & Test System	2.0 hrs	$55		$110
						120 Line DLC Remote Terminal Installed Cost	$13,731
						120 Line DLC Allocated COT Costs	$4,617
						120 Line DLC Total Common Costs + Site + Fiber Patch Panel Installed Costs	$18,348

96 Line Low Density Remote Terminal DLC Equipment

Item	Part No.	Part Name	Part Description	QTY	AFC List	Net 20%	Total
Matl	0310-0174	RSC/120	120 Line Remote Sub-Cabinet w/1 CBA	1 cabinet	$3,800	$3,040	$3,040
Matl	0310-0133	UPA AC/120	RSC/120 UPA AC Power Center	1 unit	$955	$764	$764
Matl	0310-0056	110V AC/120	RSC/120 110V AC Power Entrance	1 unit	$150	$120	$120
Matl	0310-0031	MS2/120	RSC/120 Copper Pairs Pre-terminated (MS2)	4 groups	$45	$36	$144
Matl	0310-0028	GEN CON/120	External Generator Connection	1 ea	$350	$280	$280
Matl	0310-0033	BATT 35AH	48 Volt Battery Pack-35 AH	1 ea	$800	$640	$640
Matl	0310-0076	120 6" BASE	RSC/120 Standard 6" High Base	1 ea	$150	$120	$120
Matl	0310-0073	120 TEMPLATE	RSC/120 Pour In Place Template	50% sites	$600	$480	$240
Matl	0310-0070	120 POLE	RSC/120 Pole Mount Kit	50% sites	$450	$360	$180
Matl	0700-0004	P-ACI	UPA AC Interface Unit	1 unit	$200	$160	$160
Matl	0700-0007	P-ACR	UPA AC Rectifier	2 units	$500	$400	$800
Matl	0700-0010	P-FD	UPA Fuse & Distribution Unit	1 unit	$150	$120	$120
Matl	0101-0001	CPU	Central Processing Unit	2 units	$780	$624	$1,248
Matl	0101-0006	R-PSU	Remote Subscriber Power Supply Unit	2 units	$565	$452	$904
Matl	0101-0017	MTU	Metallic Test Unit	1 unit	$610	$488	$488
Matl	0120-0002	FO-XCVR	Fiber Optic Transceiver	2 pairs	$1,355	$1,084	$2,168
Labor			Engineering	12.0 hrs	$55		$660
Labor			Construct Pad & Site	50% sites	$500		$250
Labor			Place Power Pedestal & Hook Up Power	1 site	$500		$500
Labor			Place Cabinet	3.0 hrs	$55		$165
Labor			Install Batteries & Turn Up Power	1.0 hrs	$55		$55
Labor			Place Fiber Patch Panel & Splice Fibers	5.5 hrs	$55		$303
Labor			Copper Splicing	1.2 hrs	$55		$68
Labor			Install Common Cards	0.5 hr	$55		$28
Labor			Turn Up & Test System	2.0 hrs	$55		$110
						96 Line DLC Remote Terminal Installed Cost	$13,554
						96 Line DLC Allocated COT Costs	$4,298
						96 Line DLC Total Common Costs + Site + Fiber Patch Panel Installed Costs	$17,852

48 Line Low Density Remote Terminal DLC Equipment

Item	Part No.	Part Name	Part Description	QTY	AFC List	Net 20%	Total
Matl	0310-0172	RSC/48	48 Line Remote Sub-Cabinet w/1 CBA	1 cabinet	$2,700	$2,160	$2,160
Matl	0310-0131	RSC/48 110AC	RSC/48 110V AC Power Center	1 unit	$650	$520	$520
Matl	0310-0147	710/48	RSC/48 Copper Pairs Pre-terminated (710)	2 groups	$45	$36	$72
Matl	0310-0088	GEN CON/48	External Generator Connection RSC/48	1 ea	$350	$280	$280
Matl	0310-0087	BATT 14AH	48 Volt Battery Pack-14 AH	1 ea	$600	$480	$480
Matl	0310-0339	48 6" BASE	RSC/48 Standard 6" High Base	1 ea	$100	$80	$80
Matl	0310-0042	48 TEMPLATE	RSC/48 Pour In Place Template	50% ea	$500	$400	$200
Matl	0310-0095	48 POLE	RSC/48 Pole Mount Kit	50% ea	$400	$320	$160
Matl	0101-0001	CPU	Central Processing Unit	2 units	$780	$624	$1,248
Matl	0101-0007	NPSU	Network & AC Power Supply Unit	2 units	$750	$600	$1,200
Matl	0101-0017	MTU	Metallic Test Unit	1 unit	$610	$488	$488
Matl	0120-0002	FO-XCVR	Fiber Optic Transceiver	2 pairs	$1,355	$1,084	$2,168
Labor			Engineering	8.0 hrs	$55		$440
Labor			Construct Pad & Site	1 site	$500		$500
Labor			Place Power Pedestal & Hook Up Power	1 site	$500		$500
Labor			Place Cabinet	2.0 hrs	$55		$110
Labor			Install Batteries & Turn Up Power	0.5 hrs	$55		$28
Labor			Place Fiber Patch Panel & Splice Fibers	5.5 hrs	$55		$303
Labor			Copper Splicing	1.1 hrs	$55		$62
Labor			Turn Up & Test System	1.0 hrs	$55		$55
						48 Line DLC Remote Terminal Installed Cost	$11,053
						48 Line DLC Allocated COT Costs	$3,660
						48 Line DLC Total Common Costs + Site + Fiber Patch Panel Installed Costs	$14,713

24 Line Low Density Remote Terminal DLC Equipment

Item	Part No.	Part Name	Part Description	QTY	AFC List	Net 20%	Total
Matl	0310-0172	RSC/48	48 Line Remote Sub-Cabinet w/1 CBA	1 cabinet	$2,700	$2,160	$2,160
Matl	0310-0131	RSC/48 110AC	RSC/48 110V AC Power Center	1 unit	$650	$520	$520
Matl	0310-0147	710/48	RSC/48 Copper Pairs Pre-terminated (710)	2 groups	$45	$36	$72
Matl	0310-0088	GEN CON/48	External Generator Connection RSC/48	1 ea	$350	$280	$280
Matl	0310-0087	BATT 14AH	48 Volt Battery Pack-14 AH	1 ea	$600	$480	$480
Matl	0310-0339	48 6" BASE	RSC/48 Standard 6" High Base	1 ea	$100	$80	$80
Matl	0310-0042	48 TEMPLATE	RSC/48 Pour In Place Template	50% ea	$500	$400	$200
Matl	0310-0095	48 POLE	RSC/48 Pole Mount Kit	50% ea	$400	$320	$160
Matl	0101-0001	CPU	Central Processing Unit	2 units	$780	$624	$1,248
Matl	0101-0007	NPSU	Network & AC Power Supply Unit	2 units	$750	$600	$1,200
Matl	0101-0017	MTU	Metallic Test Unit	1 unit	$610	$488	$488
Matl	0120-0002	FO-XCVR	Fiber Optic Transceiver	2 pairs	$1,355	$1,084	$2,168
Labor			Engineering	6.0 hrs	$55		$330
Labor			Construct Pad & Site	1 site	$500		$500
Labor			Place Power Pedestal & Hook Up Power	1 site	$500		$500
Labor			Place Cabinet	1.5 hrs	$55		$83
Labor			Place Fiber Patch Panel & Splice Fibers	5.5 hrs	$55		$303
Labor			Copper Splicing	1.1 hrs	$55		$58
Labor			Turn Up & Test System	1.0 hrs	$55		$55
						24 Line DLC Remote Terminal Installed Cost	$10,884
						24 Line DLC Allocated COT Costs	$3,341
						24 Line DLC Total Common Costs + Site + Fiber Patch Panel Installed Costs	$14,226

FIGURE 10a

Regression Output

SUMMARY OUTPUT

Regression Statistics	
Multiple R	89.4%
R Square	80.0%
Adjusted R Square	79.9%
Standard Error	1,748,736
Observations	1,288

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	5	1.56371E+16	3.13E+15	1,023	0
Residual	1,282	3.92045E+15	3.06E+12		
Total	1,287	1.95576E+16			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	547,317	496,595	1.10	0.27	(426,911)	1,521,546	(426,911)	1,521,546
lines	505	34	14.97	0.00	438	571	438	571
host/sa	3,611,444	1,043,123	3.46	0.00	1,565,028	5,657,861	1,565,028	5,657,861
LN(time)	(156,147)	246,192	(0.63)	0.53	(639,130)	326,836	(639,130)	326,836
Lines * LN(Time)	(164)	16	(10.17)	0.00	(196)	(133)	(196)	(133)
Host * LN(Time)	(1,351,938)	521,680	(2.59)	0.01	(2,375,378)	(328,497)	(2,375,378)	(328,497)

Alpha	547,317
Beta 1	505
Beta 2	3,611,444
Beta 3	(156,147)
Beta 4	(164)
Beta 5	(1,351,938)

	Calculated for *1997*	Calculated for *1998*	Calculated for *1999*
Host Constant (*A1*)	290,601	178,840	74,793
Remote Constant (*A2*)	146,808	135,236	124,463
Host/Remote per line variable cost (*B*)	83	71	60

FIGURE 10 b

FCC Spec RecipT Regression Outp

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.874087314
R Square	0.764028633
Adjusted R Square	0.762739172
Standard Error	1966987.067
Observations	921

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	5	1.14624E+16	2.29E+15	592.5178	5.9836E-284
Residual	915	3.54017E+15	3.87E+12		
Total	920	1.50025E+16			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	273369.9081	456432.9194	0.598927	0.54937	-622408.1033	1169147.919	-622408.1033	1169147.919
lines	-15.29218758	23.15633748	-0.660389	0.509171	-60.73794107	30.1535659	-60.73794107	30.1535659
host/sa	-392024.7355	856288.3514	-0.457819	0.647191	-2072543.918	1288494.447	-2072543.918	1288494.447
1/(time)	110137.9996	3257865.872	0.033807	0.973039	-6283626.534	6503902.534	-6283626.534	6503902.534
Lines / (Time)	1415.181937	186.5722756	7.585167	8.15E-14	1049.022235	1781.34164	1049.022235	1781.34164
Host / (Time)	8867120.912	6293330.658	1.408971	0.159183	-3483932.183	21218174.01	-3483932.183	21218174.01

Alpha	273,370
Beta 1	(15)
Beta 2	(392,025)
Beta 3	110,138
Beta 4	1,415
Beta 5	8,867,121

	Calculated for *1997*	Calculated for *1998*	Calculated for *1999*
Host Constant (*A1*)	571,904	522,578	479,829
Remote Constant (*A2*)	281,842	281,237	280,712
Host/Remote per line variable cost (*B*)	94	86	79

FIGURE 10 E

FCC Spec LnT Regression Output

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.87502642
R Square	0.765671236
Adjusted R Square	0.764390751
Standard Error	1960128.984
Observations	921

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	5	1.1487E+16	2.3E+15	597.9541	2.4572E-285
Residual	915	3.51553E+15	3.84E+12		
Total	920	1.50025E+16			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	480001.5381	919545.9296	0.521998	0.601798	-1324664.579	2284667.655	-1324664.579	2284667.655
lines	524.6282513	50.93867461	10.29921	1.3E-23	424.6579321	624.5985705	424.6579321	624.5985705
host/sa	3779237.715	1768593.598	2.13686	0.032874	308262.7057	7250212.724	308262.7057	7250212.724
LN(time)	-91985.01329	456036.8762	-0.201705	0.840192	-986985.7652	803015.7386	-986985.7652	803015.7386
Lines * LN(Time)	-173.4010767	24.03232299	-7.215327	1.13E-12	-220.5660063	-126.2361471	-220.5660063	-126.2361471
Host * LN(Time)	-1466634.211	866434.9247	-1.692723	0.090849	-3167066.676	233798.2527	-3167066.676	233798.2527

Alpha	480,002
Beta 1	525
Beta 2	3,779,238
Beta 3	(91,985)
Beta 4	(173)
Beta 5	(1,466,634)

	Calculated for *1997*	Calculated for *1998*	Calculated for *1999*
Host Constant (*A1*)	261,460	145,954	38,420
Remote Constant (*A2*)	244,065	237,248	230,902
Host/Remote per line variable cost (*B*)	80	67	55

Alabama
South Central Bell-Al

Impact of ACF Correction

Network Element	Synthesis Model Baseline Investment (A)	Synthesis Model ACF Corrected Baseline Investment (B)	Impact of Input Change (B/A)-1
NID	$ 58,178,760	$ 58,178,760	0%
Distribution (DLC)	1,777,423,701	1,770,854,415	0%
Distribution (non-DLC)	36,533,479	43,102,765	18%
Distribution (all)	1,813,957,180	1,813,957,180	0%
Concentrator (DLC)	523,242,401	517,553,552	-1%
Concentrator (non-DLC)	144,335	109,351	-24%
Concentrator (all)	523,386,735	517,662,903	-1%
Feeder (DLC)	161,723,851	160,764,724	-1%
Feeder (non-DLC)	15,790,829	17,247,498	9%
Feeder (all)	177,514,680	178,012,222	0%
End Office Switching	225,522,567	225,522,567	0%
Signaling	19,473,621	19,473,621	0%
Dedicated Transport	65,272,470	65,274,219	0%
Dedicated Transport Transmission	22,784,782	22,784,782	0%
Direct Transport	46,789,712	46,790,211	0%
Direct Transport Transmission	11,222,759	11,222,759	0%
Common Transport	10,163,009	10,163,050	0%
Common Transport Transmission	2,150,552	2,150,552	0%
Tandem Switching	8,821,431	8,821,431	0%
Operator Systems	12,034,456	12,034,456	0%
Public Telephone	-	-	0%
Total Investment	$ 2,997,272,714	$ 2,992,048,712	**0%**

Total Lines	1,969,732	1,969,732	0%
Lines On DLC	1,856,698	1,836,254	-1%
% Lines on DLC	94%	93%	-1%

USF Monthly Cost	$ 31.73	$ 31.69	**0%**
UNE Loop Cost	$ 27.71	$ 27.66	**0%**

District of Columbia
C And P Telephone Company Of Wa Dc

Impact of ACF Correction

Network Element	Synthesis Model Baseline Investment (A)	Synthesis Model ACF Corrected Baseline Investment (B)	Impact of Input Change (B/A)-1
NID	$ 13,009,167	$ 13,009,167	0%
Distribution (DLC)	64,638,731	59,327,137	-8%
Distribution (non-DLC)	42,953,998	48,265,592	12%
Distribution (all)	107,592,729	107,592,729	0%
Concentrator (DLC)	107,863,660	97,892,329	-9%
Concentrator (non-DLC)	573,925	402,490	-30%
Concentrator (all)	108,437,585	98,294,818	-9%
Feeder (DLC)	14,439,242	14,801,600	3%
Feeder (non-DLC)	8,225,801	9,225,918	12%
Feeder (all)	22,665,043	24,027,518	6%
End Office Switching	105,635,755	105,635,755	0%
Signaling	5,713,975	5,713,975	0%
Dedicated Transport	1,158,214	1,158,150	0%
Dedicated Transport Transmission	12,813,619	12,813,619	0%
Direct Transport	253,311	253,306	0%
Direct Transport Transmission	2,106,140	2,106,140	0%
Common Transport	55,562	55,560	0%
Common Transport Transmission	456,437	456,437	0%
Tandem Switching	2,027,038	2,027,038	0%
Operator Systems	4,259,199	4,259,199	0%
Public Telephone	-	-	0%
Total Investment	$ 386,183,774	$ 377,403,411	**-2%**

Total Lines	1,067,696	1,067,696	0%
Lines On DLC	526,463	479,440	-9%
% Lines on DLC	49%	45%	-9%

USF Monthly Cost	$ 9.93	$ 9.76	**-2%**
UNE Loop Cost	$ 6.47	$ 6.30	**-3%**

Alabama
South Central Bell-Al

Impact of All Aerial Structure

Network Element	Synthesis Model ACF Corrected Baseline Investment (A)	Synthesis Model 100% Aerial Investment (B)	Impact of Input Change (B/A)-1
NID	$ 58,178,760	$ 58,178,760	0%
Distribution (DLC)	1,770,854,415	1,215,763,153	-31%
Distribution (non-DLC)	43,102,765	21,228,510	-51%
Distribution (all)	1,813,957,180	1,236,991,663	-32%
Concentrator (DLC)	517,553,552	522,927,651	1%
Concentrator (non-DLC)	109,351	89,284	-18%
Concentrator (all)	517,662,903	523,016,936	1%
Feeder (DLC)	160,764,724	159,638,789	-1%
Feeder (non-DLC)	17,247,498	3,880,751	-77%
Feeder (all)	178,012,222	163,519,540	-8%
End Office Switching	225,522,567	225,522,567	0%
Signaling	19,473,621	19,473,621	0%
Dedicated Transport	65,274,219	68,025,972	4%
Dedicated Transport Transmission	22,784,782	22,784,782	0%
Direct Transport	46,790,211	48,624,471	4%
Direct Transport Transmission	11,222,759	11,222,759	0%
Common Transport	10,163,050	10,552,338	4%
Common Transport Transmission	2,150,552	2,150,552	0%
Tandem Switching	8,821,431	8,821,431	0%
Operator Systems	12,034,456	12,034,456	0%
Public Telephone	-	-	0%
Total Investment	$ 2,992,048,712	$ 2,410,919,848	**-19%**

Total Lines	1,969,732	1,969,732	0%
Lines On DLC	1,836,254	1,861,242	1%
% Lines on DLC	93%	94%	1%

USF Monthly Cost	$ 31.69	$ 27.14	**-14%**
UNE Loop Cost	$ 27.66	$ 23.15	**-16%**

Alabama
South Central Bell-Al

Impact of All Buried Structure

Network Element	Synthesis Model ACF Corrected Baseline Investment (A)	Synthesis Model 100% Buried Investment (B)	Impact of Input Change (B/A)-1
NID	$ 58,178,760	$ 58,178,760	0%
Distribution (DLC)	1,770,854,415	2,096,682,191	18%
Distribution (non-DLC)	43,102,765	62,071,194	44%
Distribution (all)	1,813,957,180	2,158,753,385	19%
Concentrator (DLC)	517,553,552	512,747,613	-1%
Concentrator (non-DLC)	109,351	127,348	16%
Concentrator (all)	517,662,903	512,874,961	-1%
Feeder (DLC)	160,764,724	171,211,220	6%
Feeder (non-DLC)	17,247,498	40,825,213	137%
Feeder (all)	178,012,222	212,036,433	19%
End Office Switching	225,522,567	225,522,567	0%
Signaling	19,473,621	19,473,621	0%
Dedicated Transport	65,274,219	67,551,247	3%
Dedicated Transport Transmission	22,784,782	22,784,782	0%
Direct Transport	46,790,211	48,255,199	3%
Direct Transport Transmission	11,222,759	11,222,759	0%
Common Transport	10,163,050	10,466,439	3%
Common Transport Transmission	2,150,552	2,150,552	0%
Tandem Switching	8,821,431	8,821,431	0%
Operator Systems	12,034,456	12,034,456	0%
Public Telephone	-	-	0%
Total Investment	$ 2,992,048,712	$ 3,370,126,592	**13%**

Total Lines	1,969,732	1,969,732	0%
Lines On DLC	1,836,254	1,814,866	-1%
% Lines on DLC	93%	92%	-1%

USF Monthly Cost	$ 31.69	$ 34.71	**10%**
UNE Loop Cost	$ 27.66	$ 30.64	**11%**

Alabama
South Central Bell-Al

Impact of All Underground Structure

Network Element	Synthesis Model ACF Corrected Baseline Investment (A)	Synthesis Model 100% UG Investment (B)	Impact of Input Change (B/A)-1
NID	$ 58,178,760	$ 58,178,760	0%
Distribution (DLC)	1,770,854,415	2,718,960,905	54%
Distribution (non-DLC)	43,102,765	99,949,258	132%
Distribution (all)	1,813,957,180	2,818,910,163	55%
Concentrator (DLC)	517,553,552	492,967,108	-5%
Concentrator (non-DLC)	109,351	199,725	83%
Concentrator (all)	517,662,903	493,166,833	-5%
Feeder (DLC)	160,764,724	319,651,554	99%
Feeder (non-DLC)	17,247,498	91,909,969	433%
Feeder (all)	178,012,222	411,561,524	131%
End Office Switching	225,522,567	225,522,567	0%
Signaling	19,473,621	19,473,621	0%
Dedicated Transport	65,274,219	65,190,784	0%
Dedicated Transport Transmission	22,784,782	22,784,782	0%
Direct Transport	46,790,211	46,464,201	-1%
Direct Transport Transmission	11,222,759	11,222,759	0%
Common Transport	10,163,050	10,061,455	-1%
Common Transport Transmission	2,150,552	2,150,552	0%
Tandem Switching	8,821,431	8,821,431	0%
Operator Systems	12,034,456	12,034,456	0%
Public Telephone	-	-	0%
Total Investment	$ 2,992,048,712	$ 4,205,543,887	**41%**

Total Lines	1,969,732	1,969,732	0%
Lines On DLC	1,836,254	1,730,340	-6%
% Lines on DLC	93%	88%	-6%

USF Monthly Cost	$ 31.69	$ 35.00	**10%**
UNE Loop Cost	$ 27.66	$ 30.70	**11%**

Alabama
South Central Bell-Al

Cost Penalties of Structure Choices

Network Element	Synthesis Model ACF Corrected Baseline Investment (A)	Synthesis Model 100% Aerial Plant Investment (B)	Impact of Input Change C=(B/A)-1	Synthesis Model 100% Buried Plant Investment (D)	Buried Versus Aerial Penalty E=(D/B)-1	Synthesis Model 100% Underground Plant Investment (F)	UG Versus Buried Penalty G=(F/D)-1
NID	$ 58,178,760	$ 58,178,760	0%	$ 58,178,760	0%	$ 58,178,760	0%
Distribution (DLC)	1,770,854,415	1,215,763,153	-31%	2,096,682,191	72%	2,718,960,905	30%
Distribution (non-DLC)	43,102,765	21,228,510	-51%	62,071,194	192%	99,949,258	61%
Distribution (all)	1,813,957,180	1,236,991,663	-32%	2,158,753,385	75%	2,818,910,163	31%
Concentrator (DLC)	517,553,552	522,927,651	1%	512,747,613	-2%	492,967,108	-4%
Concentrator (non-DLC)	109,351	89,284	-18%	127,348	43%	199,725	57%
Concentrator (all)	517,662,903	523,016,936	1%	512,874,961	-2%	493,166,833	-4%
Feeder (DLC)	160,764,724	159,638,789	-1%	171,211,220	7%	319,651,554	87%
Feeder (non-DLC)	17,247,498	3,880,751	-77%	40,825,213	952%	91,909,969	125%
Feeder (all)	178,012,222	163,519,540	-8%	212,036,433	30%	411,561,524	94%
End Office Switching	225,522,567	225,522,567	0%	225,522,567	0%	225,522,567	0%
Signaling	19,473,621	19,473,621	0%	19,473,621	0%	19,473,621	0%
Dedicated Transport	65,274,219	68,025,972	4%	67,551,247	-1%	65,190,784	-3%
Dedicated Transport Transmission	22,784,782	22,784,782	0%	22,784,782	0%	22,784,782	0%
Direct Transport	46,790,211	48,624,471	4%	48,255,199	-1%	46,464,201	-4%
Direct Transport Transmission	11,222,759	11,222,759	0%	11,222,759	0%	11,222,759	0%
Common Transport	10,163,050	10,552,338	4%	10,466,439	-1%	10,061,455	-4%
Common Transport Transmission	2,150,552	2,150,552	0%	2,150,552	0%	2,150,552	0%
Tandem Switching	8,821,431	8,821,431	0%	8,821,431	0%	8,821,431	0%
Operator Systems	12,034,456	12,034,456	0%	12,034,456	0%	12,034,456	0%
Public Telephone	-	-	0%	-	0%	-	0%
Total Investment	$ 2,992,048,712	$ 2,410,919,848	**-19%**	$ 3,370,126,592	**40%**	$ 4,205,543,887	**25%**
Total Lines	1,969,732	1,969,732	0%	1,969,732	0%	1,969,732	0%
Lines On DLC	1,836,254	1,861,242	1%	1,814,866	-2%	1,730,340	-5%
% Lines on DLC	93%	94%	1%	92%	-2%	88%	-5%
USF Monthly Cost	$ 31.69	$ 27.14	**-14%**	$ 34.71	**28%**	$ 35.00	**1%**
UNE Loop Cost	$ 27.66	$ 23.15	**-16%**	$ 30.64	**32%**	$ 30.70	**0%**

Alabama
South Central Bell-Al

Impact of Optimizing Aerial Plant Share

Network Element	Synthesis Model ACF Corrected Baseline Investment (A)	Synthesis Model Optimize Aerial plant Investment (B)	Impact of Input Change (B/A)-1
NID	$ 58,178,760	$ 58,178,760	0%
Distribution (DLC)	1,770,854,415	1,844,634,704	4%
Distribution (non-DLC)	43,102,765	49,986,409	16%
Distribution (all)	1,813,957,180	1,894,621,113	4%
Concentrator (DLC)	517,553,552	516,426,370	0%
Concentrator (non-DLC)	109,351	183,646	68%
Concentrator (all)	517,662,903	516,610,016	0%
Feeder (DLC)	160,764,724	172,051,891	7%
Feeder (non-DLC)	17,247,498	24,570,818	42%
Feeder (all)	178,012,222	196,622,709	10%
End Office Switching	225,522,567	225,522,567	0%
Signaling	19,473,621	19,473,621	0%
Dedicated Transport	65,274,219	63,412,706	-3%
Dedicated Transport Transmission	22,784,782	22,784,782	0%
Direct Transport	46,790,211	45,417,872	-3%
Direct Transport Transmission	11,222,759	11,222,759	0%
Common Transport	10,163,050	9,872,725	-3%
Common Transport Transmission	2,150,552	2,150,552	0%
Tandem Switching	8,821,431	8,821,431	0%
Operator Systems	12,034,456	12,034,456	0%
Public Telephone	-	-	0%
Total Investment	$ 2,992,048,712	$ 3,086,746,068	**3%**
Total Lines	1,969,732	1,969,732	0%
Lines On DLC	1,836,254	1,825,789	-1%
% Lines on DLC	93%	93%	-1%
USF Monthly Cost	$ 31.69	$ 32.06	**1%**
UNE Loop Cost	$ 27.66	$ 28.04	**1%**

Alabama
South Central Bell-Al

Impact of Optimizing Buried Plant Share

Network Element	Synthesis Model ACF Corrected Baseline Investment (A)	Synthesis Model Optimize Buried plant Investment (B)	Impact of Input Change (B/A)-1
NID	$ 58,178,760	$ 58,178,760	0%
Distribution (DLC)	1,770,854,415	1,313,894,933	-26%
Distribution (non-DLC)	43,102,765	35,395,295	-18%
Distribution (all)	1,813,957,180	1,349,290,229	-26%
Concentrator (DLC)	517,553,552	512,286,363	-1%
Concentrator (non-DLC)	109,351	128,833	18%
Concentrator (all)	517,662,903	512,415,197	-1%
Feeder (DLC)	160,764,724	172,139,552	7%
Feeder (non-DLC)	17,247,498	12,956,226	-25%
Feeder (all)	178,012,222	185,095,779	4%
End Office Switching	225,522,567	225,522,567	0%
Signaling	19,473,621	19,473,621	0%
Dedicated Transport	65,274,219	64,744,627	-1%
Dedicated Transport Transmission	22,784,782	22,784,782	0%
Direct Transport	46,790,211	46,438,646	-1%
Direct Transport Transmission	11,222,759	11,222,759	0%
Common Transport	10,163,050	10,103,224	-1%
Common Transport Transmission	2,150,552	2,150,552	0%
Tandem Switching	8,821,431	8,821,431	0%
Operator Systems	12,034,456	12,034,456	0%
Public Telephone	-	-	0%
Total Investment	$ 2,992,048,712	$ 2,528,276,629	**-16%**
Total Lines	1,969,732	1,969,732	0%
Lines On DLC	1,836,254	1,812,375	-1%
% Lines on DLC	93%	92%	-1%
USF Monthly Cost	$ 31.69	$ 27.61	**-13%**
UNE Loop Cost	$ 27.66	$ 23.62	**-15%**

Impact of Structure Optimization on Investments

	copper feeder cable u/g	copper feeder cable buried	copper feeder cable aerial	fiber feeder cable u/g	fiber feeder cable buried	fiber feeder cable aerial	feeder conduit	feeder manholes
ACF Correct Baseline	$ 227,317	$ 639,255	$ 1,522,673	$ 1,415,401	$ 35,664,462	$ 51,329,449	$ 526,400	$ 1,860,290
Optimize Aerial	$ 1,686,604	$ 706,444	$ 591,478	$ 7,112,037	$ 37,231,690	$ 43,895,771	$ 2,641,639	$ 10,296,366
Optimize Buried	$ 1,812,194	$ -	$ 1,385,843	$ 7,088,560	$ -	$ 79,292,544	$ 2,632,408	$ 10,258,795
Impact of Aerial Optimization	1,459,287	67,189	(931,196)	5,696,636	1,567,228	(7,433,678)	2,115,239	8,436,076
Impact of Buried Optimization	1,584,877	(639,255)	(136,830)	5,673,159	(35,664,462)	27,963,095	2,106,008	8,398,505

	copper feeder u/g placement	fiber feeder u/g placement	copper feeder buried placement	fiber feeder buried placement	feeder pole inv	distribution cable underground	distribution cable buried	distribution cable aerial
ACF Correct Baseline	$ 1,429,235	$ 1,805,495	$ 12,829,340	$ 25,732,336	$ 43,030,567	$ 6,557,147	$ 301,467,930	$ 187,055,976
Optimize Aerial	$ 7,376,238	$ 9,076,098	$ 13,804,682	$ 26,794,031	$ 35,409,631	$ 33,330,838	$ 296,283,548	$ 165,445,872
Optimize Buried	$ 7,445,431	$ 9,052,786	$ -	$ -	$ 66,127,217	$ 33,330,838	$ -	$ 446,787,633
Impact of Aerial Optimization	5,947,002	7,270,603	975,342	1,061,695	(7,620,936)	26,773,692	(5,184,382)	(21,610,104)
Impact of Buried Optimization	6,016,195	7,247,291	(12,829,340)	(25,732,336)	23,096,649	26,773,692	(301,467,930)	259,731,658

	distribution conduit	distribution conduit placement	distribution buried placement	distribution poles	DLC inv w/site	SAI inv	terminal inv
ACF Correct Baseline	$ 2,952,288	$ 26,570,594	$ 879,566,192	$ 239,303,989	$ 515,649,201	$ 2,013,702	$ 77,286,125
Optimize Aerial	$ 15,006,869	$ 135,061,825	$ 864,440,199	$ 210,643,789	$ 513,464,014	$ 3,146,001	$ 81,211,232
Optimize Buried	$ 15,006,869	$ 135,061,825	$ -	$ 571,805,612	$ 510,401,495	$ 2,013,702	$ 54,100,510
Impact of Aerial Optimization	12,054,581	108,491,232	(15,125,993)	(28,660,200)	(2,185,187)	1,132,299	3,925,108
Impact of Buried Optimization	12,054,581	108,491,232	(879,566,192)	332,501,623	(5,247,706)	0	(23,185,614)

% of Lines on DLC in HCPM Default

State	Company	Total Lines	DLC Lines	% of Lines on DLC
District of Columbia	C And P Telephone Company Of Wa Dc	1,067,696	526,463	49%
New York	New York Tel	11,822,799	9,461,074	80%
Massachusetts	New England Tel-Ma	4,515,483	3,629,106	80%
Vermont	New England Tel-Vt	349,646	285,749	82%
Montana	Mountain Bell-Montana	412,232	340,627	83%
Nevada	Nevada Bell	353,001	293,472	83%
Illinois	Illinois Bell Tel Co	7,621,457	6,395,400	84%
North Dakota	Northwestern Bell-North Dakota	341,090	289,410	85%
Nebraska	Northwestern Bell-Nebraska	702,235	598,218	85%
Minnesota	Northwestern Bell-Minnesota	2,677,893	2,296,156	86%
South Dakota	Northwestern Bell-South Dakota	328,250	281,700	86%
Pennsylvania	Bell Of Pennsylvania	6,261,962	5,374,208	86%
Maine	New England Tel-Maine	629,711	545,360	87%
New Jersey	New Jersey Bell	6,111,810	5,311,404	87%
West Virginia	C And P Tel Co Of W Va	810,805	713,685	88%
Colorado	Mountain Bell-Colorado	3,143,463	2,773,600	88%
Oregon	Pacific Northwest Bell-Oregon	1,667,376	1,474,946	88%
Wyoming	Mountain Bell-Wyoming	254,134	225,570	89%
Washington	Pacific Northwest Bell-Washington	2,767,788	2,465,918	89%
California	Pacific Bell	13,648,804	12,166,596	89%
Indiana	Indiana Bell Tel Co	2,163,193	1,931,762	89%
Kansas	Southwestern Bell-Kansas	1,460,251	1,305,671	89%
Ohio	Cincinnati Bell-Ohio	793,765	710,526	90%
Wisconsin	Wisconsin Bell	2,379,515	2,130,501	90%
New Hampshire	New England Tel-Nh	768,517	689,341	90%
Ohio	Ohio Bell Tel Co	4,585,096	4,113,909	90%
Maryland	C And P Tel Co Of Md	3,566,640	3,211,187	90%
Missouri	Southwestern Bell-Missouri	2,988,938	2,696,178	90%
Utah	Mountain Bell-Utah	1,339,101	1,212,218	91%
Louisiana	South Central Bell-La	2,301,795	2,084,903	91%
Kentucky	South Central Bell-Ky	1,266,972	1,147,947	91%
Connecticut	Southern New England Tel	2,121,240	1,934,003	91%
Idaho	Mountain Bell-Idaho	571,280	522,901	92%
Michigan	Michigan Bell Tel Co	5,812,534	5,330,555	92%
Delaware	Diamond State Tel Co	545,546	502,347	92%
Arkansas	Southwestern Bell-Arkansas	1,043,480	961,443	92%
Mississippi	South Central Bell-Mississippi	1,333,422	1,230,228	92%
North Carolina	Southern Bell-Nc	2,525,349	2,333,797	92%
Oklahoma	Southwestern Bell-Oklahoma	1,751,864	1,621,937	93%
Rhode Island	New England Tel-Ri	667,323	618,961	93%
Florida	Southern Bell-Fl	6,481,233	6,017,164	93%
Texas	Southwestern Bell-Texas	10,270,715	9,550,418	93%
New Mexico	Mountain Bell-New Mexico	902,945	840,803	93%
Tennessee	South Central Bell-Tn	2,748,462	2,583,917	94%
Alabama	South Central Bell-Al	1,969,732	1,856,698	94%
Kentucky	Cincinnati Bell-Ky	187,150	176,619	94%
South Carolina	Southern Bell-Sc	1,471,763	1,391,575	95%
Arizona	Mountain Bell-Arizona	2,897,847	2,747,643	95%
Georgia	Southern Bell-Ga	4,241,403	4,037,336	95%

Alabama
South Central Bell-Al

Impact of Forcing Fewer Lines on DLC

Network Element	Synthesis Model ACF Corrected Baseline Investment (A)	Synthesis Model CU ACF=.01, Fiber ACF=.99 Investment (B)	Impact of Input Change (B/A)-1
NID	$ 58,178,760	$ 58,178,760	0%
Distribution (DLC)	1,770,854,415	1,478,444,814	-17%
Distribution (non-DLC)	43,102,765	335,512,366	678%
Distribution (all)	1,813,957,180	1,813,957,180	0%
Concentrator (DLC)	517,553,552	353,182,570	-32%
Concentrator (non-DLC)	109,351	750,227	586%
Concentrator (all)	517,662,903	353,932,798	-32%
Feeder (DLC)	160,764,724	177,979,901	11%
Feeder (non-DLC)	17,247,498	68,577,773	298%
Feeder (all)	178,012,222	246,557,674	39%
End Office Switching	225,522,567	225,522,567	0%
Signaling	19,473,621	19,473,621	0%
Dedicated Transport	65,274,219	65,290,451	0%
Dedicated Transport Transmission	22,784,782	22,784,782	0%
Direct Transport	46,790,211	46,799,010	0%
Direct Transport Transmission	11,222,759	11,222,759	0%
Common Transport	10,163,050	10,164,689	0%
Common Transport Transmission	2,150,552	2,150,552	0%
Tandem Switching	8,821,431	8,821,431	0%
Operator Systems	12,034,456	12,034,456	0%
Public Telephone	-	-	0%
Total Investment	$ 2,992,048,712	$ 2,896,890,730	**-3%**

Total Lines	1,969,732	1,969,732	0%
Lines On DLC	1,836,254	1,092,349	-41%
% Lines on DLC	93%	55%	-41%

USF Monthly Cost	$ 31.69	$ 30.92	**-2%**
UNE Loop Cost	$ 27.66	$ 26.83	**-3%**

District of Columbia
C And P Telephone Company Of Wa Dc

Impact of Forcing Fewer Lines on DLC

Network Element	Synthesis Model ACF Corrected Baseline Investment (A)	Synthesis Model CU ACF=.01, Fiber ACF=.99 Investment (B)	Impact of Input Change (B/A)-1
NID	$ 13,009,167	$ 13,009,167	0%
Distribution (DLC)	59,327,137	3,525,144	-94%
Distribution (non-DLC)	48,265,592	104,067,586	116%
Distribution (all)	107,592,729	107,592,729	0%
Concentrator (DLC)	97,892,329	3,083,106	-97%
Concentrator (non-DLC)	402,490	735,617	83%
Concentrator (all)	98,294,818	3,818,724	-96%
Feeder (DLC)	14,801,600	3,363,380	-77%
Feeder (non-DLC)	9,225,918	46,162,731	400%
Feeder (all)	24,027,518	49,526,111	106%
End Office Switching	105,635,755	105,635,755	0%
Signaling	5,713,975	5,713,975	0%
Dedicated Transport	1,158,150	1,156,801	0%
Dedicated Transport Transmission	12,813,619	12,813,619	0%
Direct Transport	253,306	253,049	0%
Direct Transport Transmission	2,106,140	2,106,140	0%
Common Transport	55,560	55,472	0%
Common Transport Transmission	456,437	456,437	0%
Tandem Switching	2,027,038	2,027,038	0%
Operator Systems	4,259,199	4,259,199	0%
Public Telephone	-	-	0%
Total Investment	$ 377,403,411	$ 308,424,215	**-18%**

Total Lines	1,067,696	1,067,696	0%
Lines On DLC	479,440	14,545	-97%
% Lines on DLC	45%	1%	-97%

USF Monthly Cost	$ 9.76	$ 8.52	**-13%**
UNE Loop Cost	$ 6.30	$ 5.00	**-21%**

USF Monthly Cost Comparison

State	Company	FCC SYN	HAI 5.0a @ HAI Default Input Values	BCPM 3.1 @ BCPM Default Input Values	FCC:HAI Def	BCPM Def : HAI Def	FCC : BCPM Def	HAI 5.0a @ FCC Common Input Values	BCPM 3.1 @ FCC Common Input Values	Relative Values FCC:HAI Def	Relative Values BCPM Def : HAI Def	Relative Values FCC : BCPM Def	# of STDs from Mean FCC:HAI Def	# of STDs from Mean BCPM Def : HAI Def	# of STDs from Mean FCC : BCPM Def
Alabama	South Central Bell-Al	$ 32.18	$ 23.98	$ 40.29	134%	168%	80%	$ 30.01	$ 30.98	107%	103%	104%	0.4	(0.8)	0.8
Arizona	Mountain Bell-Arizona	$ 21.24	$ 16.66	$ 34.60	127%	208%	61%	$ 22.90	$ 27.49	93%	120%	77%	(0.4)	1.2	(0.9)
Arkansas	Southwestern Bell-Arkansas	$ 33.07	$ 22.58	$ 45.86	146%	203%	72%	$ 28.34	$ 34.48	117%	122%	96%	0.9	1.4	0.3
California	Pacific Bell	$ 15.96	$ 13.25	$ 26.57	120%	201%	60%	$ 19.85	$ 22.26	80%	112%	72%	(1.1)	0.3	(1.2)
Colorado	Mountain Bell-Colorado	$ 24.05	$ 18.83	$ 35.73	128%	190%	67%	$ 24.88	$ 27.82	97%	112%	86%	(0.2)	0.2	(0.3)
Connecticut	Southern New England Tel	$ 17.80	$ 18.30	$ 29.77	97%	163%	60%	$ 23.16	$ 24.39	77%	105%	73%	(1.3)	(0.5)	(1.1)
Delaware	Diamond State Tel Co	$ 21.34	$ 16.75	$ 30.35	127%	181%	70%	$ 22.92	$ 24.62	93%	107%	87%	(0.4)	(0.3)	(0.3)
District of Columbia	C And P Telephone Company Of DC	$ 9.93	$ 11.13	$ 20.78	89%	187%	48%	$ 16.87	$ 18.62	59%	110%	53%	(2.3)	0.1	(2.4)
Florida	Southern Bell-Fl	$ 20.36	$ 15.02	$ 28.59	136%	190%	71%	$ 21.10	$ 23.60	96%	112%	86%	(0.2)	0.2	(0.3)
Georgia	Southern Bell-Ga	$ 23.86	$ 18.46	$ 33.64	129%	182%	71%	$ 24.23	$ 26.83	98%	111%	89%	(0.1)	0.1	(0.1)
Idaho	Mountain Bell-Idaho	$ 33.47	$ 21.21	$ 44.01	158%	208%	76%	$ 27.83	$ 32.66	120%	117%	102%	1.1	0.9	0.7
Illinois	Illinois Bell Tel Co	$ 18.87	$ 14.50	$ 26.68	130%	184%	71%	$ 21.27	$ 22.44	89%	106%	84%	(0.6)	(0.5)	(0.4)
Indiana	Indiana Bell Tel Co	$ 24.17	$ 16.69	$ 32.31	145%	194%	75%	$ 22.79	$ 25.88	106%	114%	93%	0.3	0.4	0.1
Kansas	Southwestern Bell-Kansas	$ 33.33	$ 20.73	$ 40.69	161%	196%	82%	$ 26.45	$ 31.28	126%	118%	107%	1.4	1.0	1.0
Kentucky	Cincinnati Bell-Ky	$ 28.63	$ 25.05	$ 33.88	114%	135%	84%	$ 31.10	$ 26.90	92%	87%	106%	(0.4)	(2.7)	1.0
Kentucky	South Central Bell-Ky	$ 35.26	$ 22.55	$ 41.01	156%	182%	86%	$ 28.88	$ 31.25	122%	108%	113%	1.2	(0.2)	1.4
Louisiana	South Central Bell-La	$ 32.05	$ 20.35	$ 37.39	157%	184%	86%	$ 26.51	$ 29.12	121%	110%	110%	1.1	0.0	1.2
Maine	New England Tel-Maine	$ 33.09	$ 25.09	$ 44.53	132%	177%	74%	$ 31.61	$ 32.06	105%	101%	103%	0.3	(1.0)	0.8
Maryland	C And P Tel Co Of Md	$ 20.63	$ 16.50	$ 28.23	125%	171%	73%	$ 22.77	$ 23.31	91%	102%	89%	(0.5)	(0.9)	(0.2)
Massachusetts	New England Tel-Ma	$ 16.10	$ 15.34	$ 26.49	105%	173%	61%	$ 21.50	$ 22.09	75%	103%	73%	(1.4)	(0.8)	(1.1)
Michigan	Michigan Bell Tel Co	$ 22.80	$ 16.17	$ 31.09	141%	192%	73%	$ 22.16	$ 25.09	103%	113%	91%	0.2	0.4	(0.0)
Minnesota	Northwestern Bell-Minnesota	$ 27.97	$ 18.34	$ 32.77	152%	179%	85%	$ 24.61	$ 26.23	114%	107%	107%	0.7	(0.4)	1.0
Mississippi	**South Central Bell-Mississippi**	**$ 54.95**	**$ 30.40**	**$ 52.98**	**181%**	**174%**	**104%**	**$ 36.94**	**$ 39.12**	**149%**	**106%**	**140%**	**2.7**	**(0.4)**	**3.1**
Missouri	Southwestern Bell-Missouri	$ 27.51	$ 18.76	$ 34.32	147%	183%	80%	$ 25.02	$ 27.07	110%	108%	102%	0.5	(0.2)	0.7
Montana	Mountain Bell-Montana	$ 38.64	$ 24.18	$ 59.71	160%	247%	65%	$ 31.11	$ 42.30	124%	136%	91%	1.3	3.0	0.0
Nebraska	Northwestern Bell-Nebraska	$ 38.11	$ 26.15	$ 40.63	146%	155%	94%	$ 32.54	$ 31.18	117%	96%	122%	0.9	(1.6)	1.9
Nevada	Nevada Bell	$ 31.06	$ 22.39	$ 39.61	139%	177%	78%	$ 29.85	$ 30.49	104%	102%	102%	0.2	(0.9)	0.7
New Hampshire	New England Tel-Nh	$ 25.01	$ 20.90	$ 36.10	120%	173%	69%	$ 27.18	$ 28.05	92%	103%	89%	(0.4)	(0.8)	(0.1)
New Jersey	New Jersey Bell	$ 15.23	$ 13.69	$ 23.53	111%	172%	65%	$ 20.54	$ 20.14	74%	98%	76%	(1.4)	(1.3)	(1.0)
New Mexico	Mountain Bell-New Mexico	$ 32.39	$ 21.07	$ 42.21	154%	200%	77%	$ 27.28	$ 31.85	119%	117%	102%	1.0	0.8	0.7
New York	New York Tel	$ 16.36	$ 14.73	$ 25.79	111%	175%	63%	$ 20.77	$ 21.74	79%	105%	75%	(1.2)	(0.6)	(1.0)
North Carolina	Southern Bell-Nc	$ 27.20	$ 18.88	$ 33.69	144%	178%	81%	$ 24.39	$ 26.84	112%	110%	101%	0.6	0.0	0.6
North Dakota	Northwestern Bell-North Dakota	$ 36.34	$ 22.11	$ 46.97	164%	212%	77%	$ 28.21	$ 35.78	129%	127%	102%	1.6	1.9	0.7
Ohio	Cincinnati Bell-Ohio	$ 16.49	$ 18.49	$ 27.79	89%	150%	59%	$ 24.70	$ 23.01	67%	93%	72%	(1.8)	(1.9)	(1.2)
Ohio	Ohio Bell Tel Co	$ 17.66	$ 15.35	$ 29.49	115%	192%	60%	$ 21.48	$ 24.03	82%	112%	74%	(1.0)	0.2	(1.1)
Oklahoma	Southwestern Bell-Oklahoma	$ 32.01	$ 22.27	$ 41.34	144%	186%	77%	$ 28.73	$ 31.47	111%	110%	102%	0.6	(0.0)	0.7
Oregon	Pacific Northwest Bell-Oregon	$ 21.20	$ 17.92	$ 34.80	118%	194%	61%	$ 23.84	$ 27.39	89%	115%	77%	(0.6)	0.6	(0.9)
Pennsylvania	Bell Of Pennsylvania	$ 17.27	$ 16.09	$ 28.76	107%	179%	60%	$ 22.75	$ 23.52	76%	103%	73%	(1.3)	(0.7)	(1.1)
Rhode Island	New England Tel-Ri	$ 15.05	$ 15.37	$ 29.25	98%	190%	51%	$ 21.68	$ 24.12	69%	111%	62%	(1.7)	0.2	(1.8)
South Carolina	Southern Bell-Sc	$ 28.45	$ 20.69	$ 37.66	138%	182%	76%	$ 26.31	$ 29.32	108%	111%	97%	0.4	0.2	0.4
South Dakota	Northwestern Bell-South Dakota	$ 34.26	$ 23.80	$ 52.70	144%	221%	65%	$ 31.08	$ 38.97	110%	125%	88%	0.6	1.8	(0.2)
Tennessee	South Central Bell-Tn	$ 27.72	$ 20.88	$ 36.84	133%	176%	75%	$ 27.03	$ 28.80	103%	107%	96%	0.1	(0.4)	0.3
Texas	Southwestern Bell-Texas	$ 21.67	$ 16.67	$ 32.82	130%	197%	66%	$ 22.78	$ 26.12	95%	115%	83%	(0.3)	0.6	(0.5)
Utah	Mountain Bell-Utah	$ 20.93	$ 16.99	$ 32.82	123%	193%	64%	$ 22.99	$ 25.72	91%	112%	81%	(0.5)	0.2	(0.6)
Vermont	New England Tel-Vt	$ 32.21	$ 25.47	$ 45.33	126%	178%	71%	$ 32.15	$ 33.91	100%	105%	95%	0.0	(0.5)	0.2
Washington	Pacific Northwest Bell-Washington	$ 20.97	$ 16.30	$ 31.40	129%	193%	67%	$ 22.24	$ 25.32	94%	114%	83%	(0.3)	0.5	(0.5)
West Virginia	C And P Tel Co Of W Va	$ 40.80	$ 29.74	$ 49.43	137%	166%	83%	$ 35.77	$ 36.39	114%	102%	112%	0.8	(0.9)	1.3
Wisconsin	Wisconsin Bell	$ 19.63	$ 14.89	$ 29.69	132%	199%	66%	$ 21.23	$ 24.29	92%	114%	81%	(0.4)	0.5	(0.6)
Wyoming	Mountain Bell-Wyoming	$ 40.10	$ 30.01	$ 69.97	134%	233%	57%	$ 37.25	$ 45.87	108%	123%	87%	0.4	1.5	(0.2)
	Standard Deviation				**20%**	**19%**	**11%**			**18%**	**9%**	**16%**			
	Mean				132%	186%	71%			100%	110%	91%			

Comparison of Trends in Cost Variations

Relationship of Synthesis Model Investment to ARMIS

state	company	SYN C&W Inv / ARMIS	SYN TPIS / ARMIS
District of Columbia	C And P Telephone Company Of Wa Dc	48%	33%
California	Pacific Bell	55%	44%
New York	New York Tel	55%	44%
Massachusetts	New England Tel-Ma	61%	48%
Connecticut	Southern New England Tel	61%	44%
New Jersey	New Jersey Bell	62%	51%
Rhode Island	New England Tel-Ri	64%	57%
Ohio	Cincinnati Bell-Ohio	71%	56%
Pennsylvania	Bell Of Pennsylvania	71%	58%
Florida	Southern Bell-Fl	82%	63%
Georgia	Southern Bell-Ga	87%	62%
Ohio	Ohio Bell Tel Co	88%	69%
Texas	Southwestern Bell-Texas	92%	67%
New Hampshire	New England Tel-Nh	92%	71%
Washington	Pacific Northwest Bell-Washington	94%	64%
Arizona	Mountain Bell-Arizona	97%	70%
Maryland	C And P Tel Co Of Md	99%	68%
Oregon	Pacific Northwest Bell-Oregon	101%	76%
Illinois	Illinois Bell Tel Co	101%	75%
Colorado	Mountain Bell-Colorado	103%	67%
Delaware	Diamond State Tel Co	104%	78%
Utah	Mountain Bell-Utah	107%	71%
North Carolina	Southern Bell-Nc	108%	76%
Vermont	New England Tel-Vt	109%	81%
South Carolina	Southern Bell-Sc	111%	82%
Wisconsin	Wisconsin Bell	116%	88%
Indiana	Indiana Bell Tel Co	120%	86%
Michigan	Michigan Bell Tel Co	120%	87%
Tennessee	South Central Bell-Tn	124%	83%
Alabama	South Central Bell-Al	128%	77%
Louisiana	South Central Bell-La	128%	91%
Maine	New England Tel-Maine	137%	92%
Wyoming	Mountain Bell-Wyoming	142%	99%
Arkansas	Southwestern Bell-Arkansas	142%	102%
Missouri	Southwestern Bell-Missouri	143%	86%
New Mexico	Mountain Bell-New Mexico	144%	90%
Kentucky	Cincinnati Bell-Ky	147%	95%
Oklahoma	Southwestern Bell-Oklahoma	147%	104%
West Virginia	C And P Tel Co Of W Va	152%	103%
Kentucky	South Central Bell-Ky	152%	104%
Nevada	Nevada Bell	164%	122%
Minnesota	Northwestern Bell-Minnesota	166%	102%
Nebraska	Northwestern Bell-Nebraska	171%	88%
Kansas	Southwestern Bell-Kansas	188%	118%
South Dakota	Northwestern Bell-South Dakota	189%	115%
Idaho	Mountain Bell-Idaho	189%	129%
North Dakota	Northwestern Bell-North Dakota	214%	139%
Mississippi	**South Central Bell-Mississippi**	**217%**	**137%**
Montana	Mountain Bell-Montana	220%	143%
Average		**96%**	**68%**

Relationship of USF Monthly Cost among Cost Models: # of STD from Mean

State	Company	FCC:HAI Def	BCPM Def : HAI Def	FCC : BCPM Def
District of Columbia	C And P Telephone Company Of DC	(2.3)	0.1	(2.4)
Ohio	Cincinnati Bell-Ohio	(1.8)	(1.9)	(1.2)
Rhode Island	New England Tel-Ri	(1.7)	0.2	(1.8)
New Jersey	New Jersey Bell	(1.4)	(1.3)	(1.0)
Massachusetts	New England Tel-Ma	(1.4)	(0.8)	(1.1)
Pennsylvania	Bell Of Pennsylvania	(1.3)	(0.7)	(1.1)
Connecticut	Southern New England Tel	(1.3)	(0.5)	(1.1)
New York	New York Tel	(1.2)	(0.6)	(1.0)
California	Pacific Bell	(1.1)	0.3	(1.2)
Ohio	Ohio Bell Tel Co	(1.0)	0.2	(1.1)
Illinois	Illinois Bell Tel Co	(0.6)	(0.5)	(0.4)
Oregon	Pacific Northwest Bell-Oregon	(0.6)	0.6	(0.9)
Maryland	C And P Tel Co Of Md	(0.5)	(0.9)	(0.2)
Utah	Mountain Bell-Utah	(0.5)	0.2	(0.6)
New Hampshire	New England Tel-Nh	(0.4)	(0.8)	(0.1)
Kentucky	Cincinnati Bell-Ky	(0.4)	(2.7)	1.0
Wisconsin	Wisconsin Bell	(0.4)	0.5	(0.6)
Arizona	Mountain Bell-Arizona	(0.4)	1.2	(0.9)
Delaware	Diamond State Tel Co	(0.4)	(0.3)	(0.3)
Washington	Pacific Northwest Bell-Washington	(0.3)	0.5	(0.5)
Texas	Southwestern Bell-Texas	(0.3)	0.6	(0.5)
Florida	Southern Bell-Fl	(0.2)	0.2	(0.3)
Colorado	Mountain Bell-Colorado	(0.2)	0.2	(0.3)
Georgia	Southern Bell-Ga	(0.1)	0.1	(0.1)
Vermont	New England Tel-Vt	0.0	(0.5)	0.2
Tennessee	South Central Bell-Tn	0.1	(0.4)	0.3
Michigan	Michigan Bell Tel Co	0.2	0.4	(0.0)
Nevada	Nevada Bell	0.2	(0.9)	0.7
Maine	New England Tel-Maine	0.3	(1.0)	0.8
Indiana	Indiana Bell Tel Co	0.3	0.4	0.1
Alabama	South Central Bell-Al	0.4	(0.8)	0.8
Wyoming	Mountain Bell-Wyoming	0.4	1.5	(0.2)
South Carolina	Southern Bell-Sc	0.4	0.2	0.4
Missouri	Southwestern Bell-Missouri	0.5	(0.2)	0.7
South Dakota	Northwestern Bell-South Dakota	0.6	1.8	(0.2)
Oklahoma	Southwestern Bell-Oklahoma	0.6	(0.0)	0.7
North Carolina	Southern Bell-Nc	0.6	0.0	0.6
Minnesota	Northwestern Bell-Minnesota	0.7	(0.4)	1.0
West Virginia	C And P Tel Co Of W Va	0.8	(0.9)	1.3
Arkansas	Southwestern Bell-Arkansas	0.9	1.4	0.3
Nebraska	Northwestern Bell-Nebraska	0.9	(1.6)	1.9
New Mexico	Mountain Bell-New Mexico	1.0	0.8	0.7
Idaho	Mountain Bell-Idaho	1.1	0.9	0.7
Louisiana	South Central Bell-La	1.1	0.0	1.2
Kentucky	South Central Bell-Ky	1.2	(0.2)	1.4
Montana	Mountain Bell-Montana	1.3	3.0	0.0
Kansas	Southwestern Bell-Kansas	1.4	1.0	1.0
North Dakota	Northwestern Bell-North Dakota	1.6	1.9	0.7
Mississippi	**South Central Bell-Mississippi**	**2.7**	**(0.4)**	**3.1**

Alabama
South Central Bell-Al

Impact of Changing Density Definition From CBG-Based to Cluster-Based

Network Element	HAI 50a Default Investment (A)	HAI 50a Cluster Density Investment (B)	Impact of Definition Change (B/A)-1
NID	$ 45,224,405	$ 45,265,688	0%
Distribution (DLC)	744,940,807	853,281,463	15%
Distribution (non-DLC)	124,087,133	159,303,615	28%
Distribution (all)	869,027,939	1,012,585,078	17%
Concentrator (DLC)	281,049,036	281,053,797	0%
Concentrator (non-DLC)	2,971,068	2,969,978	0%
Concentrator (all)	284,020,104	284,023,775	0%
Feeder (DLC)	294,710,779	295,816,726	0%
Feeder (non-DLC)	45,409,359	46,521,526	2%
Feeder (all)	340,120,138	342,338,252	1%
End Office Switching	233,684,159	233,684,159	0%
Signaling	19,009,436	19,009,436	0%
Dedicated Transport	48,383,624	48,385,681	0%
Dedicated Transport Transmission	26,261,262	26,261,262	0%
Direct Transport	33,212,714	33,211,961	0%
Direct Transport Transmission	13,303,476	13,303,476	0%
Common Transport	7,225,173	7,225,283	0%
Common Transport Transmission	2,582,978	2,582,978	0%
Tandem Switching	8,817,064	8,817,064	0%
Operator Systems	10,882,837	10,882,837	0%
Public Telephone	12,698,839	12,698,839	0%
Total Investment	$ 1,954,454,148	$ 2,100,275,770	**7%**
Total Lines	1,968,210	1,968,210	0%
Lines On DLC	1,379,936	1,379,936	0%
% Lines on DLC	70%	70%	0%
USF Monthly Cost	$ 23.98	$ 25.60	**7%**
UNE Loop Cost	$ 18.72	$ 20.27	**8%**

Impact on Feeder from Input Changes

Alabama
South Central Bell-Al

Scenario	total lines	Total area, sq mi	Average main feeder distance, ft	Average distribution route distance in cluster, ft	number of DLC lines	average loop length, ft	Average maximum loop length, ft
Baseline	1,969,732	19,595	15,366	125,769	1,856,698	46,821	54,046
Corected ACF	1,969,732	19,595	15,264	125,769	1,836,254	46,944	54,169
CU ACF=.01, Fiber ACF=.99	1,969,732	19,595	15,098	125,769	1,092,349	45,365	52,590